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TITLE: Preventing/Decreasing Running Injuries in an Active duty
Population via a Web Based Tele-Consult System

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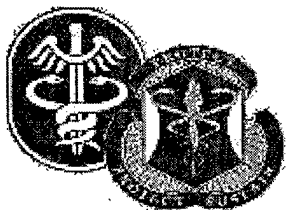
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DHP RFS Final Report



Preventing/decreasing running injuries in an active duty population via a web-based tele-consult system.

Proposal Number: 1999000218

Debra LORI Rose BSN, MA

Abstract

Problems

This is a unique service not found in any military or civilian sector. There was a prolonged period of time involving recruitment. This concerned two personnel offices, advertisement misrepresentation, application elimination, interviews and finally, August 2001, a selection. It took four months of training for acceptable proficiency from the selectee concerning performance in all major areas of the Tele-Shoe Clinic project.

There were delays in receiving some equipment. We were unable to download digital images properly into our web- based program until mid-April, 2001. Extensive time needed to develop software and provide upgrades.

There was a change in principal investigators. I inherited this project from Ms. Debbie Rose. Although I provided the conceptual framework into which she created the submitted proposal, I did know its contents. When she left Fit-To-Win in December 1999 I assumed her duties as Chief and continued to perform mine as Health Educator, as well. One and one-half years later, I am still performing duties of both positions. This has left me with an insufficient amount of valuable time I have needed to work on this project. In January of this year I was selected Chief and at this moment the announcement has just closed for recruitment for the Health Educator. This time constraint will improve.

Deliverables

We have a robust web-based system with over 400 patient files. This system includes the following:

(1) A statistics database which stores patient injury, running shoe and training information, which is pregnant with research possibilities. (2) Storage of digital images in patient's electronic file for the purpose of running shoe recommendation and future patient/provider medical consult queries. (3) A customized and valuable running shoe database from which a list of specific model running shoes is generated based on all information from appointment for each patient. (4) A running report, which contains information on a patient's running profile (e.g., running gait) as well as running and training educational guidelines and information. (5) A patient's section for comments and suggestions.

Also, we have a successful digital video camera-laptop combination, which can download captured running gait images and store them in a patient's electronic file.

Expenditures

| | 3Q FY 00 | 4Q FY 00 | 1Q FY 01 | 2Q FY 01 | |
|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Element of Resource (EOR) | Apr 1 - May 31 | Jun 1 - Sep 30 | Oct 1 - Dec 31 | Jan 1 - Mar 31 | TOTALS |
| Travel 2100 | 0.00 | 0.00 | 1,063.25 | 0.00 | 1,063.25 |
| | | | | | |
| Shipping 2200 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | |
| Rent & Communications 2200 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | |
| Contract for Services 2500 | 0.00 | 66,415.60 | 124,550.91 | 0.00 | 190,966.51 |
| | | | | | |
| Supplies 2600 | 0.00 | 0.00 | 191.36 | 0.00 | 191.36 |
| | | | | | |
| Equipment 3100 | 0.00 | 9,780.00 | 59,194.48 | 0.00 | 68,974.48 |
| | | | | | |
| GRAND TOTALS | 0.00 | 76,195.60 | 185,000.00 | 0.00 | 261,195.60 |

Financials

Details of disbursement can be explained by Ms. Daisy Dewitt.

Final Results

• The research study, set to begin in June 2001, will validate technology. • The web-based consult program is tested and the database is robust. • The tele-consultation software is GOTS. • Currently, there is planned deployment to four MTF's starting with Ft. Belvoir in June, 2001. • This meets a critical soldier need---- Foot Injury Prevention. The need for this program is already established with historical data. The potential for AMEDD-wide implementation is enormous, but we need additional funding. This program will help commanders develop training programs to reduce injuries. We have intellectual property with intent to file patent to possibly secure royalties to offset deployment costs. This tele-shoe clinic, once established at off-site MTF's, will usher telemedicine into military prevention program and services.

Projected Costs

Projected costs to start-up Tele-Shoe Clinic are as follows:

Treadmill \$3500 VAIO Sony Notebook Laptop \$3500 Digital Video Camera \$1500 Zip Drive \$ 150 Misc. \$ 300

Total: \$9950

(TDY funding for on-site consultations)

Comments

Thank you for the opportunity to "marry" this program, which has been in service since 1991, to telemedicine with the grant funding. The result is a product that is ready for the next step, which is its establishment at off-site facilities.

TATRC Scientific Review

TATRC Acquisition Review

Supporting Graphs/Charts

No Attachments